Performance Data Sheet

RKB5513EXA

General Information

Model	RKB5513EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4710	4420					
	Watts	571	627					
	Amps	4.65	5.16					
	Lb/h	60.6	59.3					
-10	Btu/h	5210	4890	4590				
	Watts	586	646	706				
	Amps	4.77	5.32	5.89				
	Lb/h	66.6	65.1	63.8				
-5	Btu/h	5790	5450	5110	4790			
	Watts	601	664	728	792			
	Amps	4.89	5.49	6.11	6.74			
	Lb/h	73.7	72.1	70.6	69.1			
0	Btu/h	6470	6090	5730	5370	5030		
	Watts	616	682	750	818	887		
	Amps	5.01	5.66	6.33	7.00	7.70		
	Lb/h	81.8	80.1	78.4	76.8	75.3		
5	Btu/h	7240	6830	6430	6030	5650		
	Watts	631	700	771	844	917		
	Amps	5.13	5.83	6.54	7.26	7.99		
	Lb/h	91.0	89.2	87.4	85.6	83.9		
10	Btu/h	8110	7660	7210	6780	6350	5940	5540
	Watts	646	718	792	868	946	1030	1110
	Amps	5.26	6.00	6.75	7.50	8.27	9.06	9.86
	Lb/h	101	99.3	97.4	95.5	93.7	91.9	90.3
15	Btu/h	9060	8570	8090	7610	7140	6680	6230
	Watts	661	735	812	892	974	1060	1140
	Amps	5.38	6.17	6.95	7.75	8.55	9.37	10.2
	Lb/h	112	110	108	106	104	103	101
20	Btu/h	10100	9570	9050	8530	8010	7500	7000
	Watts	676	752	832	916	1000	1090	1180
	Amps	5.51	6.33	7.16	7.98	8.82	9.67	10.5
	Lb/h	125	123	121	118	116	114	112

25	Btu/h	11200	10700	10100	9530	8960	8400	7850
	Watts	691	769	852	938	1030	1120	1210
	Amps	5.64	6.50	7.35	8.21	9.08	9.96	10.8
	Lb/h	138	136	134	131	129	127	125
30	Btu/h	12500	11800	11200	10600	10000	9380	8770
	Watts	706	786	871	960	1050	1150	1250
	Amps	5.76	6.66	7.55	8.44	9.33	10.2	11.1
	Lb/h	152	150	148	145	143	141	139
35	Btu/h	13800	13100	12500	11800	11100	10400	9770
	Watts	721	803	889	981	1080	1180	1280
	Amps	5.89	6.81	7.74	8.66	9.58	10.5	11.4
	Lb/h	167	165	163	160	158	156	153
40	Btu/h	15200	14500	13800	13000	12300	11600	10900
	Watts	737	819	908	1000	1100	1200	1310
	Amps	6.01	6.97	7.92	8.87	9.81	10.8	11.7
	Lb/h	183	181	179	176	174	171	169
45	Btu/h	16700	15900	15200	14400	13600	12800	12000
	Watts	752	836	926	1020	1120	1230	1340
	Amps	6.13	7.12	8.10	9.07	10.0	11.0	12.0
	Lb/h	200	198	196	193	191	188	185
50	Btu/h	18300	17500	16600	15800	14900	14100	13200
	Watts	768	852	943	1040	1140	1250	1370
	Amps	6.25	7.27	8.27	9.26	10.2	11.2	12.2
	Lb/h	218	216	213	211	208	206	203
55	Btu/h	20000	19100	18200	17300	16400	15500	14600
	Watts	784	868	960	1060	1170	1280	1400
	Amps	6.37	7.41	8.43	9.45	10.4	11.4	12.4
	Lb/h	236	234	232	230	227	224	222

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	9.724897E+03	1.746372E+02	-3.160761E-01	9.085570E+01
C2	1.834890E+02	2.428288E+00	-6.684281E-02	1.744364E+00
C3	-4.142941E+01	4.028598E+00	7.225106E-02	-1.083224E-02
C4	2.197723E+00	3.914568E-02	3.679474E-04	1.856530E-02
C5	-3.245642E-01	-3.967375E-02	1.327897E-03	1.614529E-03
C6	-8.612852E-03	2.389427E-02	-1.213974E-04	-1.846118E-03
C7	-2.200708E-04	2.537350E-05	-5.695951E-07	-2.225347E-05
C8	-4.506334E-03	-4.941703E-04	-4.164297E-06	2.814607E-05
C9	-1.973276E-03	5.852976E-04	-2.323904E-06	-2.205589E-05
C10	2.297744E-04	-6.643619E-05	6.304835E-07	7.131409E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature